

X-RAY TUBE WINDOW AND SURROUNDING ENCLOSURE COOLING APPARATUSES

Abstract

An x-ray tube window cooling assembly (11) for an x-ray tube (18) includes an electron collector body (110). The electron collector body (110) is thermally coupled to an x-ray tube window (102). The electron collector body (110) may include a coolant circuit (112) with a coolant inlet (114) and a coolant outlet (122). One or more thermal exchange devices may be coupled to the x-ray tube window (102) or to the coolant circuit (112) and reduce temperature of the x-ray tube window (102).